

Westfield Academy - Curriculum Information

What your child will learn in ...

Design and Technology

Head of Department	Miss Hall	
Head of Department email	RHA@westfield.academy	
Lessons per 2 week cycle	4	
Specification/Board details/Key stage	Eduqas	

Term by term

Rotation 1	Rotation 2	Rotation 3
Year 7		
Textiles To introduce students to a variety of textiles skills to enhance their knowledge of the fashion industry and the importance of design.	Architecture To introduce students to what architecture involves, including precision drawing on paper and CAD Engineering To introduce students to the workshop and the traditional making methods engineers use.	Food Preparation and Nutrition (please see their page for more information)
Year 8		
Electronics Students are introduced to how electronic products work and how they are made. They create their own electronic circuit board that lights up.	RM Analysis of different materials used in design technology, focussing on the properties of wood.	Food Preparation and Nutrition (please see their page for more information)
Year 9		
Product Design More in depth analysis of materials, structures, mechanisms, forces and development of design skills.	Textiles To enhance students' textiles skills, develop pattern making, practical skills and their knowledge of the fashion industry.	Food Preparation and Nutrition (please see their page for more information)
Key Skills developed	Practical skills - tools, machines, techniques, CAD, CAM, health and safety Theory - grow an in depth knowledge of materials and their properties and new technologies,	

	Creativity, Research, giving and receiving feedback, analysis, Designing, drawing, accuracy, attention to detail
Useful Websites	<p>Bitesize https://www.bbc.co.uk/bitesize/examspecs/z4nfwty</p> <p>Eduqas website https://www.eduqas.co.uk/qualifications/design-and-technology-gcse/#tab_keydocuments</p> <p>Technology Student https://www.technologystudent.com/</p> <p>Seneca - Online revision & quizzes https://senecalearning.com/en-GB/revision-notes/gcse/design-and-technology/aga</p>
Reading/Literacy requirements /Key Words	<p>Textiles Natural and synthetic fibres, tie dye, embroidery, applique, weaving, rendering and designing</p> <p>Timbers Tension, Torsion, Shear, Linear, reciprocating, Rotary, Oscillating, manufactured board, softwood, hardwood</p> <p>Electronics Current, voltage, resistance, circuit board, light emitting diode, positive and negative, power source, conductor, renewable and non-renewable, solder, soldering iron</p> <p>Graphics and Architecture Computer Aided Design, Perspective, 2-D Design, Heat Press, Branding, Redesign, accuracy, bird eye view, oblique, isometric, 2 point perspective</p> <p>Engineering Ferrous, non-ferrous and alloy. File, Pillar drill, Hacksaw and vice.</p>
Homework requirements	Once every week which is posted on google classroom.
Personal Development Links	
Trips/Visits (If applicable)	N/A